

CLAIMS

1. An EL device, comprising:

a substrate;

an intermediate layer formed on a surface of the substrate and having irregularities formed on a surface opposite to a surface which is in contact with the substrate;

a first electrode layer formed on the intermediate layer;

a light emitting layer formed on the first electrode layer;

and

a second electrode layer formed on the light emitting layer,

at least one of the layers formed on the surface of the intermediate layer which has the irregularities thereon extending along a surface of the layer which is in contact with the at least one of the layers on a side of the intermediate layer.

2. An EL device according to claim 1, wherein the at least one of the layers is formed in a substantially uniform thickness.

3. An EL device according to claim 1, wherein the at least one of the layers has a curved shape conforming to the surface of the intermediate layer on which the irregularities are formed.

4. An EL device according to claim 1, wherein the light emitting layer has a curved shape conforming to the surface of the intermediate layer on which the irregularities are formed.

5. An EL device according to claim 1, wherein one of the first electrode layer and the second electrode layer opposite to a light taking-out side with respect to the light emitting layer is formed of a reflective electrode and the other is formed of a transparent

electrode, and the reflective electrode has a curved shape conforming to the surface of the intermediate layer on which the irregularities are formed.

6. An EL device according to claim 1, wherein the intermediate layer is formed of a photoresist.

7. An EL device according to claim 1, wherein the intermediate layer is formed of a sheet previously provided with an irregularity shape on its surface and affixed onto the substrate.

8. An EL device according to claim 1, wherein the surface of the intermediate layer on which the irregularities are formed is an irregularity surface on which a concave portion and a convex portion are formed at random.

9. An EL device according to claim 1, further comprising at least one prism sheet disposed on a light taking-out side with respect to the light emitting layer.

10. An EL device according to claim 9, wherein the at least one prism sheet has a plurality of linear convex portions disposed in parallel to each other, each of the linear convex portions being sharply pointed to have a triangular shape in cross section.

11. An EL device according to claim 10, wherein two prism sheets are overlapped and disposed so that extending directions of the linear convex portions intersect each other.

12. A method of manufacturing an EL device, comprising:
forming on a surface of a substrate an intermediate layer having

a surface on which irregularities are formed;

forming a first electrode layer on the intermediate layer;

forming a light emitting layer on the first electrode layer;

and

forming a second electrode layer on the light emitting layer,

at least one of the layers formed on the surface of the intermediate layer on which has the irregularities thereon extending along a surface of the layer which is in contact with the at least one of the layers on a side of the intermediate layer.

13. A method of manufacturing an EL device according to claim 12, wherein one of the first electrode layer and the second electrode layer opposite to a light taking-out side with respect to the light emitting layer is formed of a reflective electrode, and the other is formed of a transparent electrode, and a surface of the reflective electrode has a curved shape conforming to the surface of the intermediate layer on which the irregularities are formed.

14. A method of manufacturing an EL device according to claim 12, wherein the at least one of the layers includes the light emitting layer.

15. A liquid crystal display device comprising the EL device according to claim 1 used for a backlight.